

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/508,570	05/23/2000	Francois Arminjon	MBHIB00-210	9141
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	oehnen Hulbert & Be	rghoff	EXAM	NER
300 South Wac Chicago, IL 60		Francois Arminjon MBHIB00-210 9141		
			ART UNIT	PAPER NUMBER
			1648	iy
		DATE MAILED: 04/07/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicant(s)	1
	Application No.	ARMINJON ET AL.	
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Office Action Summary The MAILING DATE of this communication	Examiner	1648	
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U.S. Patent and Trademark Offi PTO-326 (Rev 04-01)

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DETAILED ACTION

1. Applicant's amendment filed February 25, 2003 is acknowledged and entered. Claims 21-27 and 29-38 are pending and examined.

Response to Arguments

2. Claims 21-27 and 29-38 remain rejected under 35 U.S.C. 103(a) as obvious over Petre et al. in view of Arminjon et al., both of record. Applicant's arguments have been carefully considered.

Applicant mainly argues that:

- The prior art does not suggest adsorption of tetanus and diphtheria toxoids onto aluminum salt prior to mixing with other components.
 - In response, Petre teaches that the components of the combined vaccine are adsorbed to AH or AP. The following excerpt is taken from Petre, "After allowing time for complete and stable adsorption of the respective components, the different components are combined under appropriate conditions", page 9, lines 1-3 of Petre. Therefore, Petre clearly teaches adsorption prior to mixing with other components.
- The prior art does not teach the preparation of a conjugate in phosphate buffer solution prior to mixing with other components.
 - In response, upon further review of the Arminjon reference, Arminjon discusses the immunogenic instability of HiB/PRP coupled to tetanus anatoxin. Arminjon says that the PRP-T should be suspended in a solution

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containing anions (phosphate or citrate) prior to contacting them with aluminum complexes (page 6, lines 33-40). Therefore, the prior art teaches that PRP-T should be prepared in a buffer solution before mixing.

- There is no motivation to combine the teachings of Petre with those of Arminjon.
 - In response, it would have been obvious to modify the vaccine of Petre with the teachings of Arminjon because Arminjon teaches that the method used by Petre is not efficient (Arminjon, page 2, lines 20-26). Petre's method of retaining the immogenicity of the HiB antigen is to mix it with the other components immediately before administering (Petre, page 4, lines 17-20). However, Arminjon discloses the buffer solution to help stabilize PRP-T. Therefore, it would have been obvious to use Arminjon's buffer in Petre's multivalent vaccine.
- The limitations of the claims are not addressed in the rejection.
 - In response, Applicant is invited to review the prior Office actions of record where the limitations of the claims are addressed.
 - The limitation of claim 23 pertains to the addition of inactivated polio virus mixed with other components without being adsorbed onto an aluminum salt. Petre discloses instances where only one of the components of the multivalent vaccine is adsorbed to an aluminum salt (claim 27) and the other components are not treated. Given the teachings of Arminjon and Petre, one of ordinary skill would have recognized that any component of the multivalent vaccine could be adsorbed, depending

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on the stability required/desired for each component. This is demonstrated by the fact that Petre teaches that IPV can be adsorbed or not adsorbed onto aluminum salt (claims 6 and 27).

Conclusion

3. No claim is allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Papers relating to this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Group 1600 located in Crystal Mall 1. The Fax number for Art Unit 1648 is (703) 308-4426. All Group 1600 Fax machines will be available to receive transmissions 24 hrs/day, 7 days/wk. Please note that the faxing of such papers must conform with the Notice published in the Official Gazette, 1096 OG 30, (November 15, 1989).

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Stacy S. Brown, whose telephone number is (703) 308-2361. The Examiner can normally be reached on Monday through Friday and alternate Wednesdays from 6:30 AM-4:00 PM, (EST). If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, James C. Housel, can be reached at (703) 308-4027. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Stacy S. Brown March 28, 2003

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600